Claims

What is claimed is:

1	1. An electrical structure comprising a conductive button, said conductive button including:
2	a dielectric core; and
3	a conductive wiring helically wound circumferentially around the dielectric core, wherein
4	the conductive wiring terminates in at least two end contacts at a first end of the conductive
5	button, and wherein the conductive wiring terminates in at least two end contacts at a second end
5	of the conductive button.
1	2. The electrical structure of claim 1, wherein being helically wound includes being braided.
nak 1 sak	3. The electrical structure of claim 1, wherein being helically wound includes being served.
1	4. The electrical structure of claim 1, wherein being helically wound includes being helically
2	wound in no more than one rotational direction, and wherein the one rotational direction is
3	selected from the group consisting of a clockwise direction and a counter clockwise direction.
l	5. The electrical structure of claim 1, wherein the conductive wiring has a diameter between
2	about 1 mil and about 5 mils.

- 6. The electrical structure of claim 1, wherein the conductive wiring includes a conductive 1
- material selected from the group consisting of copper, a copper alloy, nickel, palladium, and 2
- 3 platinum.
- 7. The electrical structure of claim 1, wherein the dielectric core includes a dielectric material 1
- having a hardness between about 37A and about 56D on a Shore scale. 2
- 8. The electrical structure of claim 1, wherein the dielectric core has axial grooves along an outer surface of the dielectric core.
- 9. The electrical structure of claim 1, wherein the dielectric core has an axial through hole at a radial center of the dielectric core.
- 1 10. The electrical structure of claim 1, wherein the dielectric core has a foamed structure.

- 1 11. An electrical structure comprising a conductive button, said conductive button including:
- 2 a dielectric core;
- a conductive wiring helically wound circumferentially around the dielectric core, wherein
- 4 the conductive wiring terminates in at least two end contacts at a first end of the conductive
- button, and wherein the conductive wiring terminates in at least two end contacts at a second end
- 6 of the conductive button; and

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- 7 an outer dielectric jacket around the conductive wiring.
 - 12. The electrical structure of claim 11, wherein being helically wound includes being braided.
 - 13. The electrical structure of claim 11, wherein being helically wound includes being served.
- 1 14. The electrical structure of claim 11, wherein being helically wound includes being helically wound in no more than one rotational direction, and wherein the one rotational direction is selected from the group consisting of a clockwise direction and a counter clockwise direction.
- 1 15. The electrical structure of claim 11, wherein a portion of the conductive wiring is at a helical
- angle between about 30 degrees and about 60 degrees with respect to an axis of the button.
- 1 16. The electrical structure of claim 11, wherein at least one end contact at the first end of the
- 2 button is at a node of two wires of the conductive wiring.